```
10621670
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> d his

(FILE 'HOME' ENTERED AT 18:41:35 ON 28 JUN 2004)

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FILE 'REGISTRY' ENTERED AT 18:41:50 ON 28 JUN 2004
               STRUCTURE UPLOADED
Ll
              2 S L1
L2
L3
                STRUCTURE UPLOADED
              1 S L3
L4
             33 S L3 SSS FULL
L5
     FILE 'CAPLUS' ENTERED AT 18:48:39 ON 28 JUN 2004
L6
            260 S L5
             9 S L6 AND (HEMIFURMAR? OR FUMAR?)
L7
            124 S HEMIFUMARATE
L8
              1 S L6 AND L8
L9
              8 S L7 NOT L9
L10
Lll
            659 S LORATADIN?
L12
             0 S L8 AND L11
             37 S L8 AND FUMAR?
L13
             19 S L8 (P) FUMAR?
L14
              0 S L14 AND ALLERG?
L15
              0 S L14 AND ANTIHISTAMIN?
L16
```

=> d 11

L1 HAS NO ANSWERS

L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> d 13

L3 HAS NO ANSWERS

L3 STR

```
10621670
     ANSWER 1 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
     2004:392073 CAPLUS
AN
     140:395532
DN
     Antihistamine and decongestant oral dosage forms
ΤI
     Kositprapa, Unchalee; Sriwongjanya, Mongkol
IN
PA
     U.S. Pat. Appl. Publ., 10 pp.
SO
     CODEN: USXXCO
DT
     Patent
     English
LΑ
FAN.CNT 1
     PATENT NO.
                       KIND DATE
                                             APPLICATION NO. DATE
                       ----
                             20040513
                                             US 2002-291103 20021108
PΙ
     US 2004091533
                        A1
PRAI US 2002-291103
                             20021108
     The present invention relates to an oral pharmaceutical formulation that
     employs: (1) a compressed core containing a decongestant or pharmaceutically acceptable salt thereof; (2) a delayed release coating on the compressed
     core; and (3) immediate release therapeutic amts. of a decongestant and an
     antihistamine. For example, a core tablet containing pseudoephedrine was
     coated with a delayed release composition containing Euidragit S100, followed by
     (1) an immediate release coating composition containing pseudoephedrine sulfate,
     (2) a seal coating containing Opadry clear, (3) loratadine immediate release
     coating, and (4) seal coating containing Opadry clear.
     100643-71-8, Descarboethoxy loratadine
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
         (controlled-release oral dosage forms of antihistamine and
        decongestant)
     100643-71-8 CAPLUS
RN
     5H-Benzo[5,6]cyclohepta[1,2-b]pyridine, 8-chloro-6,11-dihydro-11-(4-
CN
     piperidinylidene) - (9CI) (CA INDEX NAME)
```

```
ANSWER 2 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
L7
AN
     2004:267177 CAPLUS
DN
     140:276210
     Drug delivery devices containing neuraminidase inhibitor and an H1
TI
IN
     Faour, Joaquina; Vergez, Juan A.; Ricci, Marcelo A.
PA
     Argent.
SO
     U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of WO 2004 19,917.
     CODEN: USXXCO
DT
     Patent
LΑ
     English
FAN.CNT 2
     PATENT NO.
                       KIND DATE
                                              APPLICATION NO. DATE
     US 2004062801
                              20040401
                                              US 2003-619720
                                                                20030715
     US 2003044457
                        A1
                             20030306
                                              US 2001-907486
                                                                20010717
     US 6605302
                        B2
                              20030812
     WO 2004019917
                        A1
                             20040311
                                              WO 2002-CR5
                                                                20020829
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
              PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD,
              RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT. BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
              PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
             NE, SN,
                      TD, TG
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PRAI US 2001-907486

WO -2002-CR5

A2

A2

20010717

20020829

10621670

CN

The present invention provides a dual release solid dosage form containing a first composition that releases a neuraminidase inhibitor, such as oseltamivir, zanamivir, or peramivir, in a controlled manner and a second composition that releases an H1 antagonist in a rapid and/or immediate manner. A wide range of H1 antagonist antihistamines, especially fexofenadine and loratadine, can be used in this device. Particular embodiments of the invention provide osmotic devices having predetd. release profiles. The device is useful for the treatment of respiratory congestion and other viral infection associated symptoms. For example, osmotic device tablets containing oseltamivir phosphate and fexofenadine hydrochloride were prepared

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(controlled-release drug delivery device containing neuraminidase inhibitor and H1 antagonist)

RN 100643-71-8 CAPLUS

5H-Benzo[5,6]cyclohepta[1,2-b]pyridine, 8-chloro-6,11-dihydro-11-(4-piperidinylidene)- (9CI) (CA INDEX NAME)

L7 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:171546 CAPLUS

TI High-performance liquid chromatographic method for the bioequivalence evaluation of desloratadine fumarate tablets in dogs

AU Liu, Lihe; Qi, Meiling; Wang, Peng; Li, Haozhi

CS School of Pharmacy, Shenyang Pharmaceutical University, Shenyang, Peop.
Rep. China

SO Journal of Pharmaceutical and Biomedical Analysis (2004), 34(5), 1013-1019 CODEN: JPBADA; ISSN: 0731-7085

PB Elsevier Science B.V.

DT Journal

LA English

A simple HPLC method was developed for the determination of desloratadine in dog AB blood plasma and was used for evaluating the bioequivalence of desloratadine fumarate tablets and desloratadine tablets in dogs. Chromatog. separation was performed on a Hypersil CN column (150 mm+5.0 mm, 5 μ m) using a mixture of MeOH, acetonitrile and phosphate buffer (pH 5.5; 0.01 mol/L) (35:35:30) as mobile phase delivered at a flow rate of 0.8 mL/min. The detection was set at 241 nm. The limit of quantitation was 5.0 ng/mL. The calibration range was from 5.0 to 800.0 nq/mL. Inter- and intra-day precision ranged 1.8-3.8% and 2.2-9.0%, resp. The recovery of desloratadine from dog plasma ranged 78.8-82.0%. The developed method was applied to the bioequivalence studies of desloratadine fumarate tablets (test preparation) and desloratadine tablets (reference preparation) in 5 dogs. Pharmacokinetic parameters tmax, Cmax, AUC0-t, AUC0- ∞ , t1/2 were determined from plasma concentration-time profiles of both prepns. The anal. of variance (ANOVA) did not show any significant difference between the 2 prepns. and 90% confidence intervals fell within the acceptable range for bioequivalence. Based on these statistical inferences, it was concluded that the 2 prepns. exhibited comparable pharmacokinetic profiles and that desloratadine fumarate tablets was bioequivalent to desloratadine tablets.

IT INDEXING IN PROGRESS

IT 100643-71-8, Desloratadine

RL: ANT (Analyte); PKT (Pharmacokinetics); ANST (Analytical study); BIOL (Biological study)

(bioequivalence evaluation of desloratadine fumarate tablets in dogs with HPLC)

RN 100643-71-8 CAPLUS

CN 5H-Benzo[5,6]cyclohepta[1,2-b]pyridine, 8-chloro-6,11-dihydro-11-(4-piperidinylidene)- (9CI) (CA INDEX NAME)

```
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
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```
ANSWER 4 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
L7
     2004:120725 CAPLUS
ΑN
     140:169678
DN
     Novel salt and polymorphs of desloratadine hemifumarate
ΤI
     Ray, Anup Kumar; Patel, Hiren V.; Patel, Mahendra R.
IN
PA
     Geneva Pharmaceuticals, Inc., USA
     PCT Int. Appl., 16 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LΑ
     English
FAN.CNT 1
     PATENT NO.
                        KIND DATE
                                               APPLICATION NO. DATE
                       ____
                             20040212
                                              WO 2003-US22312 20030717
     WO 2004012738
                        A1
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
              PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY,
              KG, KZ, MD, RU
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
              CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
              NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                       A1 20040325
     US 2004058949
                                               US 2003-621670 20030717
PRAI US 2002-401153P
                              20020805
                        р
     This invention provides a process of preparation of polymorphic forms of
     desloratadine hemifumarate salts that show much higher solubility in water and
     also in protic organic solvents compared to the parent desloratadine. The
     process of preparing the polymorphic forms comprising: (a) mixing the
     ethanolic solution of desloratadine and fumaric acid at a temperature of
     about 55° to 70°, and stirring for 30 to 45 min after
     mixing, and thereafter filtering the solid thereby prepared in hot
     condition; to yield the polymorphic Form 2 having a DSC of 232°
     ± 2°; or (b) mixing the ethanolic solution of desloratadine and
     fumaric acid at a temperature of about 15° to room temperature (25°) and stirring at this temperature for 30 to 45 min, then filtering
     at room temperature; to yield the polymorphic Form 1 having a DSC of 224°
     ± 2°. A pharmaceutical composition comprises an antiallergic
     effective amount of either Form 1 or Form 2 of desloratadine hemifumarate
     and a pharmaceutically acceptable carrier.
     656253-72-4P
     RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
         (preparation of polymorphs of desloratadine hemifumarate for dosage forms)
      656253-72-4 CAPLUS
     5H-Benzo[5,6]cyclohepta[1,2-b]pyridine, 8-chloro-6,11-dihydro-11-(4-
     piperidinylidene) -, (2E) -2-butenedioate (2:1) (9CI) (CA INDEX NAME)
      CRN 100643-71-8
     CMF C19 H19 C1 N2
```

CM 2

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

IT 100643-71-8, Desloratadine

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of polymorphs of desloratadine hemifumarate for dosage forms)

RN 100643-71-8 CAPLUS

SH-Benzo[5,6]cyclohepta[1,2-b]pyridine, 8-chloro-6,11-dihydro-11-(4-piperidinylidene)- (9CI) (CA INDEX NAME)

L7 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:988191 CAPLUS

DN 140:12688

TI Comparison of ketotifen fumarate ophthalmic solution alone, desloratadine alone, and their combination for inhibition of the signs and symptoms of seasonal allergic rhinoconjunctivitis in the conjunctival allergen challenge model: a double-masked, placebo- and active-controlled trial

AU Crampton, H. Jerome

CS Ophthalmic Research Associates, North Andover, MA, USA

Clinical Therapeutics (2003), 25(7), 1975-1987

CODEN: CLTHDG; ISSN: 0149-2918

PB Excerpta Medica, Inc.

DT Journal

LA English

Background: Ketotifen fumarate is a topical antiallergic combination mast-cell stabilizer and antihistamine indicated for the temporary prevention of ocular itching due to allergic conjunctivitis. Desloratadine is a systemic antihistamine indicated for the treatment of seasonal and perennial allergic rhinitis. Objective: The purpose of this study was to compare the efficacy of ketotifen 0.025% ophthalmic solution instilled in the eye, desloratadine 5-mg tablets taken orally, and their combination for prevention of the signs and symptoms of allergic rhinoconjunctivitis, as induced by the conjunctival allergen challenge (CAC) model. Methods: This was a randomized, double-masked, placebo- and active-controlled, single-center clin. trial. At visit 1, the dose of allergen necessary to elicit a qualifying allergic reaction was determined for subjects meeting the entry criteria. At visit 2, the allergen dose determined at visit 1 was confirmed, and all subjects who had a qualifying ocular and nasal allergic reaction were randomized to 1 of 3 treatment groups:

ketotifen ophthalmic solution and placebo tablet, desloratadine tablet and placebo eyedrop, or ketotifen and desloratadine. Subjects were instructed to instill 1 drop into each eye twice daily and take 1 tablet with water once daily at the same time as the morning eyedrop for .apprx.4 wk. At visit 3, subjects brought in their medication and were given 1 drop of the eyedrop bilaterally and 1 tablet with water. Bilateral CAC was performed 2 h after administration of medication. Using standardized scales, subjects rated ocular itching at 3, 5, and 7 min after CAC; ocular tearing and eyelid swelling at 10, 15, and 20 min after CAC; and nasal signs and symptoms (sneezing, rhinorrhea and postnasal drip, pruritus, and nasal congestion) at 10, 20, 30, 40, and 50 min after CAC. The investigator graded ocular redness and chemosis at 10, 15, and 20 min after CAC. At all visits, subjects were offered an anti-allergy eyedrop to relieve any immediate ocular discomfort caused by CAC. Results: One hundred two subjects were screened-82 (55 women, 27 men; mean age, 42.8 yr [range, 21-70 yr]) were randomized to treatment, and 80 completed the study. Subjects in the group that received ketotifen (n = 27) and the group that received ketotifen with desloratadine (n = 26) had significantly lower mean itching scores compared with those in the group that received desloratadine alone (n = 27) at all time points (P \leq 0.05). Total ocular redness, calculated by summing the mean redness scores for each of the 3 vessel beds, was significantly lower in the ketotifen group than in the other treatment groups at most time points ($P \le 0.05$). All treatments attenuated nasal symptoms; no statistically significant differences were noted between treatment groups, with the exception of the 50-min time point, at which combination treatment was significantly more effective than ketotifen alone (P ≤ 0.05). The proportion of subjects who requested relief drops after CAC was significantly lower in both the ketotifen alone and combination treatment groups compared with the desloratadine alone group (P = 0.004). Conclusions: Ketotifen ophthalmic solution significantly decreased the signs and symptoms of ocular and nasal allergic rhinoconjunctivitis. The addition of ketotifen to the oral desloratadine regimen improved the overall antiallergic efficacy of both medications.

IT 100643-71-8, Desloratadine

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Biological study); USES (USES)
 (comparison of efficacy of ketotifen fumarate ophthalmic
 solution alone, desloratadine alone, and their combination for inhibition
 of signs and symptoms of seasonal allergic rhinoconjunctivitis in
 conjunctival allergen challenge model)

RN 100643-71-8 CAPLUS

CN 5H-Benzo[5,6]cyclohepta[1,2-b]pyridine, 8-chloro-6,11-dihydro-11-(4-piperidinylidene)- (9CI) (CA INDEX NAME)

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L7 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
```

AN 2002:720795 CAPLUS

DN 138:280580

TI FDA new drug approvals in 2001

AU Zhao, Kang; He, Lan; Reiner, John

CS The College of Pharmaceuticals and Biotechnology, Tianjin University, Peop. Rep. China

SO Frontiers of Biotechnology & Pharmaceuticals (2002), 3, 400-413 CODEN: FBPRBL

PB Science Press New York Ltd.

DT Journal; General Review

LA English

AB A review covering the 24 new drugs approved by the Food and Drug Administration in the year 2001. Therapeutics are grouped according to the following coded areas: (A) agents affecting neurotransmitters and cytokines, (B) antiinflammatory agents, (C) hormone related agents, (D)

IT

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anti-infectious agents, and (E) miscellaneous agents. A synopsis for each drug includes a brief description of its medical utility, a mechanism of action if known, a chemical structure, and a pathway for its synthesis.

100643-71-8P, Desloratadine

PR. PRA (Prig mechanism of action): PAC (Pharmacological activity); SPN
```

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(FDA new drug approvals in 2001)

RN 100643-71-8 CAPLUS

CN 5H-Benzo[5,6]cyclohepta[1,2-b]pyridine, 8-chloro-6,11-dihydro-11-(4-piperidinylidene)- (9CI) (CA INDEX NAME)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
ANSWER 7 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
L7
     2002:503329 CAPLUS
AN
     137:68175
DN
     Texture masked particles coated with a film-forming polymer and an
TI
     anti-grit agent
     Parikh, Narendra; McTeigue, Daniel; Wynn, David W.; Pillai, Ravivaj S.
IN
     McNeil-PPC, Inc., USA
PΑ
     Eur. Pat. Appl., 13 pp.
SO
     CODEN: EPXXDW
\mathbf{DT}
     Patent
LА
     English
FAN.CNT 1
     PATENT NO.
                      KIND DATE
                                            APPLICATION NO. DATE
                      ----
                       A1
                                            EP 2001-310751
                                                              20011221
                            20020703
PΙ
     EP 1219291
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                      A1 20020829
                                            US 2000-745243
                                                              20001221
     US 2002119196
                       A5 20020627
                                                              20011221
                                            AU 2001-97361
     AU 2001097361
                                            CN 2001-145483
                                                              20011221
     CN 1366878
                       Α
                             20020904
                                            JP 2001-390445
                                                              20011221
     JP 2002272817
                       A2 20020924
                                            ZA 2001-10547
                                                              20011221
     ZA 2001010547
                       Α
                             20030730
                                            NZ 2001-516341
                                                              20011221
                             20030829
     NZ 516341
                       Α
                                            BR 2001-6912
                                                              20011221
                             20030916
     BR 2001006912
                       A
                       Α
                             20001221
PRAI US 2000-745243
     Texture masked particles and chewable tablets made therefrom are
     disclosed. The texture masked particles are comprised of (i) a core
     containing an active ingredient, e.g. and antacid or non-steroidal
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anti-inflammatory agent, (ii) an optional first layer of a taste masking agent that substantially covers the core, and (iii) a texture masking coating layer on the surface of the core comprising a film-forming polymer and an anti-grit agent. A taste masked particles comprise (i) a core containing an active ingredient, and (ii) a taste masking agent composed of an enteric polymer and an insol. film-forming polymer. The particles may be produced into a tablet form, such as a chewable tablet, that provides for the immediate release of the active ingredient. For example, a texture masking coating solution was prepared by dispersing equal amount of hydroxypropyl Me cellulose and polyethylene glycol 800 together with acesulfame potassium (1% of solids) in a solvent comprising 77% ethanol and 23% water so that the solid materials represented 10% of the finished solution Then, Et cellulose-encapsulated acetaminophen (1000 g) was sprayed with the texture masking coating solution prepared so that the level of the texture masking coating materials was 7% by weight of the total finished texture masked coated particles. The resulting coated particles had an average diameter of 380 μ.

T 100643-71-8, Desloratadine

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (texture and taste masked particles coated with film-forming polymer and anti-grit agent) RN 100643-71-8 CAPLUS

CN 5H-Benzo[5,6]cyclohepta[1,2-b]pyridine, 8-chloro-6,11-dihydro-11-(4-piperidinylidene)- (9CI) (CA INDEX NAME)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
ANSWER 8 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
L7
     2002:353315 CAPLUS
AN
     136:374833
DN
     Inhalant composition containing tiotropium salts and anti-histamines
TI
     Pairet, Michel; Pieper, Michael Paul; Meade, Christopher John Montague;
IN
     Schmelzer, Christel
     Boehringer Ingelheim Pharma Kg, Germany
PΑ
     PCT Int. Appl., 29 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     German
LA
FAN.CNT 6
                                              APPLICATION NO. DATE
     PATENT NO.
                       KIND DATE
                              -----
                                              WO 2001-EP12510 20011023
                              20020510
     WO 2002036163
                        A2
PΙ
                        A3 20021212
     WO 2002036163
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
              PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
         US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
              DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                        A1 20030227
                                              DE 2001-10138272 20010810
     DE 10138272
                                               US 2001-7182
                                                                 20011019
     US 2002151541
                              20021017
                         A1
                                              US 2001-86145
                                                                 20011019
     US 2002183292
                         Α1
                              20021205
     AU 2002014030
                                              AU 2002-14030
                                                                 20011023
                         Α5
                              20020515
                                              EP 2001-982446
                         A2
                              20030910
                                                                 20011023
     EP 1341538
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                              20040422
                                               JP 2002-538972
                                                                 20011023
     JP 2004512379
                         Т2
                                               US 2001-40196
                                                                 20011025
     US 2002137764
                         Α1
                              20020926
                              20030925
                                               US 2003-395777
                                                                 20030324
     US 2003181478
                         A1
PRAI DE 2000-10054042 A
                              20001031
                              20010810
     DE 2001-10138272 A
     US 2000-253613P
                         Р
                              20001128
     DE 2000-10062712 A
                               20001215
     US 2000-257220P
                         P
                               20001221
                              20010824
     US 2001-314599P
                         р
                              20011023
     WO 2001-EP12510
                         W
     US 2001-40196
                         B1
                              20011025
     The invention relates to inhalant compns. based on tiotropium salts and
      anti-histamines, a method for their production and their use for treating
      respiratory illnesses, e.g. allergic and non-allergic rhinitis. Thus and
      inhalation powder contained per microcapsule (µg): tiotropium bromide
      21.7; epinastine-hydrochloride 200; lactose 4778.3.
IT
     100643-71-8, Desloratadine
      RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
         (inhalant composition containing tiotropium salts and anti-histamines)
      100643-71-8 CAPLUS
RN
      5H-Benzo[5,6]cyclohepta[1,2-b]pyridine, 8-chloro-6,11-dihydro-11-(4-
     piperidinylidene) - (9CI) (CA INDEX NAME)
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GI

```
ANSWER 9 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
T.7
     1996:635179 CAPLUS
AN
DN
     125:275664
     8-Chloro-11-[1-[(5-methyl-3-pyridyl)methyl]-4-piperidylidene]-6,11-dihydro-
     5H-benzo[5,6]cyclohepta[1,2-b]pyridine fumarate and its
     preparation and use as a PAF antagonist and antihistaminic
     Carceller, Elena; Recasens, Nuria; Almansa, Carmen; Bartroli, Javier;
IN
     Merlos, Manel; Giral, Marta
PΑ
     J. Uriach & Cia. S.A., Spain
     Span., 11 pp.
CODEN: SPXXAD
so
DT
     Patent
     Spanish
LА
FAN.CNT 1
                       KIND DATE
                                            APPLICATION NO.
                                                              DATE
     PATENT NO.
                                                              19931124
                             19960716
                                             ES 1993-2460
ΡI
     ES 2087818
                       A1
     ES 2087818
                       В1
                             19970316
                                                              19941123
                             19950526
                                            NO 1994-4487
     NO 9404487
                        Α
PRAI ES 1993-2460
                             19931124
```

The title salt I-fumarate is prepared for use as an antagonist of PAF (platelet activating factor) and an antihistaminic (no data). I-fumarate has improved hygroscopicity and light stability in comparison to I.3HCl or the free base I. For example, I was prepared from loratadine by a sequence of: hydrolytic removal of the N-ethoxycarbonyl group (84%), N-acylation with 5-methylnicotinic acid using DCC and HOBt (65%), and chlorination/reduction of the amide using POCl3 followed by NaBH4 (72%). Treatment of I with fumaric acid in EtOH gave 70% I-fumarate. When exposed to 98% humidity for 24 h, H2O contents were 5.7% for I, and 28.3% for I.3HCl, but only 0.29% for I-fumarate. Similarly, irradiation at 150 klx for 1 h reduced purities to 92.7% for I, to 74% for I.3HCl, but only to 99.2% for I.fumarate.

IT 100643-71-8P, 8-Chloro-11-(4-piperidylidene)-6,11-dihydro-5H-benzo[5,6]cyclohepta[1,2-b]pyridine

Ι

benzo[5,6]cyclohepta[1,2-b]pyridine
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of benzocycloheptapyridine derivative fumarate salt as PAF antagonist and antihistaminic with improved properties)

100643-71-8 CAPLUS

RN

5H-Benzo[5,6]cyclohepta[1,2-b]pyridine, 8-chloro-6,11-dihydro-11-(4-piperidinylidene)- (9CI) (CA INDEX NAME)


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L14 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
     1999:369117 CAPLUS
DN
     131:26003
     2-Aminopyrimidine-fumaric acid cocrystal
     Goswami, Shyamaprosad; Mahapatra, Ajit Kumar; Nigam, Gur Dayal;
ΑU
     Chinnakali, Kandasamy; Fun, Hoong-Kun; Razak, Ibrahim Abdul
     Department of Chemistry, Bengal Engineering College (Deemed University),
CS
     Howrah, 711 103, India
     Acta Crystallographica, Section C: Crystal Structure Communications
     (1999), C55(4), 583-585
     CODEN: ACSCEE; ISSN: 0108-2701
     Munksgaard International Publishers Ltd.
PB
     Journal
DT
     English
LA
     In crystals of the title compound, 2-aminopyrimidin-1-ium
AB
     hemifumarate hemifumaric acid, C4H6N3+·0.5C4H2O42-
     ·0.5C4H4O4, the asym. unit contains one 2-aminopyrimidine cation,
     C4H6N3+, protonated at a pyrimidine ring-N atom, 1/2-mol. of
     fumaric acid, C4H4O4, and 1/2 of a fumarate ion,
     C4H2O42-. These are linked by N-H···O,
     O-H···O and relatively strong C-
     H \cdot \cdot \cdot O bonds, resulting in eight- and nine-membered
     H-bonded rings and an extended supramol. structure. Crystallog. data are
     given.
               THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 10
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
     In crystals of the title compound, 2-aminopyrimidin-1-ium
     hemifumarate hemifumaric acid, C4H6N3+ 0.5C4H2O42-
     ·0.5C4H4O4, the asym. unit contains one 2-aminopyrimidine cation,
     C4H6N3+, protonated at a pyrimidine ring-N atom, 1/2-mol. of fumaric acid, C4H4O4, and 1/2 of a fumarate ion,
     C4H2O42-. These are linked by N-H···O,
     O-H···O and relatively strong C-
     H···O bonds, resulting in eight- and nine-membered
     H-bonded rings and an extended supramol. structure. Crystallog. data are
     given.
     ANSWER 6 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
L14
     1997:317796 CAPLUS
ΔN
DN
     126:297699
     Preparation of crystalline salts of antidopaminergic 2,3,4,5-tetrahydro-1H-
ΤI
     3-benzazepine compounds
     Hansen, Louis Brammer; Amsler, Rolf Emil; Mcgraw, Scott Eugene
ΤN
     Novo Nordisk A/s, Den.; Hansen, Louis Brammer; Amsler, Rolf Emil; Mcgraw,
PΆ
     Scott Eugene
     PCT Int. Appl., 13 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LА
FAN.CNT 1
                                              APPLICATION NO. DATE
     PATENT NO.
                       KIND DATE
                             19970320
                                              WO 1996-DK383
                                                                19960912
     WO 9710239
                        Al
PΤ
          W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,
              ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD,
              SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY,
          KG, KZ, MD, RU, TJ, TM
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
              IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA
     AU 9669235
                        A1
                             19970401
                                              AU 1996-69235
                                                                 19960912
                             19990107
     AU 700596
                         B2
                                              EP 1996-930028 19960912
                             19980701
     EP 850237
                        A1
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, FI
                              19981125
                                              CN 1996-197660
                                                                 19960912
     CN 1200121
                         Α
     BR 9610162
                              19990105
                                              BR 1996-10162
                                                                 19960912
                         Α
                                              JP 1996-511574
                                                                 19960912
                         T2
                              19991026
     JP 11512403
                                              NO 1998-1135
                                                                 19980313
     NO 9801135
                         Α
                              19980313
                              19950915
PRAI DK 1995-1030
     WO 1996-DK383
                              19960912
     Crystalline salts with reproducible crystalline forms and increased solubility were
     prepared from the antidopaminergic agent, (S)-(+)-8-chloro-5-(5,6-dichloro-2,3-dihydrobenzofuran-7-yl)-3-methyl-2,3,4,5-tetrahydro-1H-3-benzazepin-7-
      ol (I). Thus, fumaric acid was added to I in 99% EtOH at
     70°, the solution was cooled to 0°, then filtered to give the
     hemifumarate.
     Crystalline salts with reproducible crystalline forms and increased solubility were
```

70°, the solution was cooled to 0°, then filtered to give the hemifumarate. L14 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN ΑN 1995:995029 CAPLUS 124:117356 DN Preparation of acid addition salts of (S)-8-chloro-5-(5-bromo-2,3-TI ${\tt dihydrobenzofuran-7-y1)} \; \hbox{-3-methyl-2,3,4,5-tetrahydro-1H-3-benzazepine-7-ol.}$ Hansen, Louis Brammer; Amsler, Rolf Emil; McGraw, Scott Eugene TN Novo Nordisk A/S, Den. PA PCT Int. Appl., 13 pp. CODEN: PIXXD2 DТ Patent English T.A FAN.CNT 1 APPLICATION NO. PATENT NO. KIND DATE DATE WO 1995-DK106 19950308 WO 9525102 A1 19950921 рT W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TT, UA, UG, UZ, VN RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG AU 1995-19454 19950308 AU 9519454 A1 19951003 EP 750616 A1 19970102 EP 1995-912143 19950308 20010530 EP 750616 В1 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE JP 1995-523785 19950308 19971014 JP 09510222 Т2 ES 1995-912143 19950308 ES 2158094 TЗ 20010901 19970819 US 1995-404394 19950314 US 5658899 Α PRAI DK 1994-311 19940316 Α WO 1995-DK106 W 19950308 Crystalline salts of (S)-8-chloro-5-(5-bromo-2,3-dihydrobenzofuran-7-yl)-3methyl-2,3,4,5-tetrahydro-1H-3-benzazepine-7-ol (I) with fumaric , L-tartaric, and D-mandelic acids were prepared Thus, fumaric acid and I were added to refluxing EtOH and the solution was cooled to room temperature to give 66% I.hemifumarate. Pharmaceutical compns. containing I salts are claimed for use in treating dysfunctions of the dopamine D1 receptor system and disorders related to schizophrenia. Crystalline salts of (S)-8-chloro-5-(5-bromo-2,3-dihydrobenzofuran-7-yl)-3methyl-2,3,4,5-tetrahydro-1H-3-benzazepine-7-ol (I) with fumaric , L-tartaric, and D-mandelic acids were prepared Thus, fumaric acid and I were added to refluxing EtOH and the solution was cooled to room temperature to give 66% I.hemifumarate. Pharmaceutical compns. containing

I salts are claimed for use in treating dysfunctions of the dopamine D1

receptor system and disorders related to schizophrenia.

prepared from the antidopaminergic agent, (S)-(+)-8-chloro-5-(5,6-dichloro-2,3-dihydrobenzofuran-7-yl)-3-methyl-2,3,4,5-tetrahydro-1H-3-benzazepin-7-

ol (I). Thus, fumaric acid was added to I in 99% EtOH at

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=> d 114 8-11 bib abs kwic
     ANSWER 8 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
     1995:120514 CAPLUS
ΔN
DN
     122:55666
     Synthesis of radiolabeled racemic and enantiomeric antiarrhythmic agents
TТ
     Stolle, Wayne T.; Stelzer, Lindsay S.; Hester, Jackson B.; Perricone,
     Salvatore C.; Hsi, Richard S. P.
     Upjohn Lab., The Upjohn Co., Kalamazoo, MI, 49001, USA
CS
     Journal of Labelled Compounds and Radiopharmaceuticals (1994), 34(10),
SO
     929-42
     CODEN: JLCRD4; ISSN: 0362-4803
     Journal
DT
     English
LA
     Ibutilide fumarate, racemic N-[4-[4-(ethyl-n-heptylamino)-1-
AB
     hydroxybutyl]phenyl]methanesulfonamide hemifumarate, and
     artilide, the R-(+)-enantiomer of N-[4-[4-(di-n-butylamino)-1-
     hydroxybutyl]phenyl]methanesulfonamide hemifumarate, are under
     clin. investigation as Class III antiarrhythmic agents. For conducting
     drug disposition studies, the authors synthesized carbon-14 labeled ibutilide, as well as its two enantiomeric forms. In addition, high specific
     activity tritium labeled ibutilide was also prepared to facilitate
     development of RIA and for studying receptor site characteristics of this
     agent. Results of metabolism studies with [14C] ibutilide led the authors to
     prepare tritium labeled artilide, which is more readily accessible than the
     C-14 labeled drug. The optical antipode of artilide was also labeled with
     tritium for comparing drug disposition investigations on the two
     enantiomers.
     Ibutilide fumarate, racemic N-[4-[4-(ethyl-n-heptylamino)-1-
AB
     hydroxybutyl]phenyl]methanesulfonamide hemifumarate, and
     artilide, the R-(+)-enantiomer of N-[4-[4-(di-n-butylamino)-1-
     hydroxybutyl]phenyl]methanesulfonamide hemifumarate, are under
     clin. investigation as Class III antiarrhythmic agents. For conducting
     drug disposition studies, the authors synthesized carbon-14 labeled
     ibutilide, as well as its two enantiomeric forms. In addition, high specific
     activity tritium labeled ibutilide was also prepared to facilitate
     development of RIA and for studying receptor site characteristics of this
     agent. Results of metabolism studies with [14C] ibutilide led the authors to
     prepare tritium labeled artilide, which is more readily accessible than the
     C-14 labeled drug. The optical antipode of artilide was also labeled with
     tritium for comparing drug disposition investigations on the two
     enantiomers.
L14 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN
     1991:62120 CAPLUS
DN
     114:62120
     Preparation of 3-(1-substituted-4-piperazinyl)-1H-indazoles as analgesics
ΤI
     and antipsychotics
IN
     Strupczewski, Joseph T.; Bordeau, Kenneth J.
     Hoechst-Roussel Pharmaceuticals, Inc., USA
so
     U.S., 27 pp.
     CODEN: USXXAM
DT
     Patent
LΑ
     English
                                                                     1
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FAN.CNT 1									
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE				
PΙ	US 4954503	Α	19900904	US 1989-405161	19890911				
	US 5077405	A	19911231	US 1990-526154	19900521				
	EP 417653	A1	19910320	EP 1990-117251	19900907				
	R: AT, BE,	CH, DE	, DK, ES, FR,	GB, GR, IT, LI, LU	, NL, SE				
	CA 2024996	AA	19910312	CA 1990-2024996	19900910				
	NO 9003925	Α	19910312	NO 1990-3925	19900910				
	AU 9062298	A1	19910314	AU 1990-62298	19900910				
	ZA 9007174	Α	19910626	ZA 1990-7174	19900910				
	JP 03167175	A2	19910719	JP 1990-237300	19900910				
PRAI	US 1989-405161		19890911						
os	CASREACT 114:621	.20; MAI	RPAT 114:62120						

GΙ

Title compds. I [R1 = H, (cycloalkyl- or aryl)alkyl, PhSO2; R2 = H, AB (hydroxy- or aryl- or cycloalkyl)alkyl, acyl, Q1, Q2 (G = lower alkylene, Z = H, halo, alkoxy, CF3, NO2, NH2), etc.; X = H, alkyl, OH, halo, alkoxy, CF3, NO2, NH2; n = 1-4; R2 \neq alkyl when R1 = H or acyl and X = Cl], useful as analgesics and antipsychotics, were prepared For example, the hemifumarate of II was prepared in 17% yield by N-alkylation of 3-(1-piperazinyl)-1H-indazole, followed by acidification by fumaric acid. The s.c. ED50 for II-hemifumarate for inhibition of writhing in mice was 0.07 mg/kg, vs. 3.9 mg/kg for propoxyphene (std). The antipsychotic activity of II was also demonstrated by the apomorphine climbing assay in mice. Title compds. I [R1 = H, (cycloalkyl- or aryl)alkyl, PhSO2; R2 = H, (hydroxy- or aryl- or cycloalkyl)alkyl, acyl, Q1, Q2 (G = lower alkylene, AB Z = H, halo, alkoxy, CF3, NO2, NH2), etc.; X = H, alkyl, OH, halo, alkoxy, CF3, NO2, NH2; n = 1-4; R2 \neq alkyl when R1 = H or acyl and X = Cl], useful as analgesics and antipsychotics, were prepared For example, the hemifumarate of II was prepared in 17% yield by N-alkylation of 3-(1-piperazinyl)-1H-indazole, followed by acidification by fumaric acid. The s.c. ED50 for II-hemifumarate for inhibition of writhing in mice was 0.07 mg/kg, vs. 3.9 mg/kg for propoxyphene (std). The antipsychotic activity of II was also demonstrated by the apomorphine climbing assay in mice.

ANSWER 10 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN T-14

1990:630962 CAPLUS AN

DN 113:230962

Preparation of chalcone oxime ethers as 5-HT2 receptor antagonists and ΤI platelet antiaggregants

Congy, Christian; Labeeuw, Bernard; Gueule, Patrick; Rinaldi, Murielle IN

PASANOFI, Fr. so

Eur. Pat. Appl., 48 pp.

CODEN: EPXXDW

DT Patent

LΑ French

FAN CNT 1

FAN.	CNT	1														
	PAT	TENT	NO.		KIN	ID	DATE			AP	PLIC	ATIO	N NC).	DATE	
						-										
PΙ	ΕP	3739	98		A1		1990	0620		EP	198	9-40	3339	9	198912	201
	EΡ	3739	98		B1		1993	0811								
		R:	ΑT,	BE,	CH,	DE,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE	
	FR	2639	942		A1		1990	0608		FR	198	8-15	860		198812	202
	FR	2639	942		B1		1991	0329								
	ΑU	8945	688		A1		1990	0607		AU	198	9-45	688		198911	L29
	ΑU	6237	706		B2	?	1992	0521								
	DK	8906	059		Α		1990	0603		DK	198	9-60	59		198911	130
	DK	1744	34		B3		2003	0303								
	NO	8904	786		Α		1990	0605		NC	198	9-47	86		198911	130
	NO	1712	169		В		1992	1109								
	NO	1712	69		C		1993	0217								
	CA	2004	350		AA	1	1990	0602		CA	198	9-20	0435	0	198912	201

10621670

	CA	2004350	С	19970603				
		8909201	A	19900926	ZA	1989-9201	19891201	
	JΡ	02262552	A2	19901025	JΡ	1989-313121	19891201	
	JР	2562503	B2	19961211				
	US	5166416	Α	19921124	US	1989-444823	19891201	
	ΑT	92914	E	19930815	ΑT	1989-403339	19891201	
	IL	92519	A1	19940530	IL	1989-92519	19891201	
	ES	2059804	T 3	19941116	ES	1989-403339	19891201	
	FI	94752	В	19950714	FΙ	1989-5757	19891201	
	FI	94752	С	19951025				
	AU	9212183	A1	19920528	ΑU	1992-12183	19920310	
	ΑU	640310	B2	19930819				
	US	5290951	Α	19940301	US	1992-911736	19920710	
PRAI	FR	1988-15860	Α	19881202				
	EΡ	1989-403339	Α	19891201				
	US	1989-444823	A3	19891201				
os	MARPAT 113:230962							
GI								

Title ethers I [Ar, Ar' = (substituted) Ph, 9-anthryl, naphthyl, pyridyl, thienyl, furyl; R1, R2 = H, alkyl; or NR1R2 = pyrrolidino, piperidino, morpholino, were prepared as 5-HT2 receptor antagonists and platelet antiaggregants (no data). For example, condensation of 2-FC6H4Ac with 4-MeOC6H4CHO in HCl-EtOH and demethylation of the product with BBr3 gave 2-FC6H4COCH:CHC6H4OH-4, which was further condensed with Me2N(CH2)2ONH2 in HC1-EtOH with alkaline workup (pH >8) to give title ether II as a 45:55 syn/anti mixture Treatment of the mixture with fumaric acid in EtOH gave crystalline syn-II hemifumarate. Eighty-eight synthetic examples are given.

Title ethers I [Ar, Ar' = (substituted) Ph, 9-anthryl, naphthyl, pyridyl, AB thienyl, furyl; R1, R2 = H, alkyl; or NR1R2 = pyrrolidino, piperidino, morpholino, were prepared as 5-HT2 receptor antagonists and platelet antiaggregants (no data). For example, condensation of 2-FC6H4Ac with 4-MeOC6H4CHO in HCl-EtOH and demethylation of the product with BBr3 gave 2-FC6H4COCH:CHC6H4OH-4, which was further condensed with Me2N(CH2)2ONH2 in HCl-EtOH with alkaline workup (pH >8) to give title ether II as a 45:55 syn/anti mixture Treatment of the mixture with fumaric acid in EtOH gave crystalline syn-II hemifumarate. Eighty-eight synthetic examples are given.

- ANSWER 11 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN L14
- 1990:76638 CAPLUS AN
- DN 112:76638
- Preparation of phenylacetonitriles as $\alpha\text{-blockers}$ TT
- Ito, Yasuo; Kato, Hideo; Etsuchu, Eiichi; Ogawa, Nobuo; Mitani, Kazuya; IN Sakurai, Shunichiro
- PΑ Hokuriku Pharmaceutical Co., Ltd., Japan
- Jpn. Kokai Tokkyo Koho, 10 pp. SO
- CODEN: JKXXAF
- DT Patent
- Japanese

PAN.	CNII					
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
					-	
ΡI	JP 01190660	A2	19890731	JP 1988-13585	19880126	
PRAI	JP 1988-13585		19880126			
os	MARPAT 112:76638					

GI

Title compds. I [R1, R2, R3 = H, lower alkoxy; R4, R5 = H, lower alkyl, R4R5N maybe (un) substituted (hetero-containing) four- to seven-membered ring; R6 = linear or branched C1-8 alkyl; R7 = lower alkyl; R8 = H, halo; X = O, S] and their pharmacol. acceptable salts, useful for treatment of hypertension and dysuria (no data), are prepared α -Isopropyl-4methoxyphenylacetonitrile in THF was treated with BuLi in hexane at 0° for 30 min and then with 1-bromo-3-chloropropane at 0° for 30 min to give α -(3-chloropropyl)- α -isopropyl-4methoxyphenylacetonitrile (II). II was refluxed with HSO3Cl in CH2Cl2 for 1.5 h, treated with H2O, extracted with CHCl3, concentrated, and the residue was treated with ammonia at 0° for 1.5 h to afford α -(3chloropropy) $-\alpha$ -isopropyl-4-methoxy-3-sulfamoylphenylacetonitrile (III). III was treated with 2-(2-methoxyphenoxy)ethylamine at 95° for 4.5 h, acidified with 10% HCl, extracted, concentrated, and the residue was treated with fumaric acid to give α-isopropyl-4-methoxy- α -[3-[2-(methoxyphenoxy)ethylamino]propyl]-3sulfamoylphenylacetonitrile hemifumarate. Title compds. I [R1, R2, R3 = H, lower alkoxy; R4, R5 = H, lower alkyl, AB R4R5N maybe (un) substituted (hetero-containing) four- to seven-membered ring; R6 = linear or branched C1-8 alkyl; R7 = lower alkyl; R8 = H, halo; X = O, S] and their pharmacol. acceptable salts, useful for treatment of hypertension and dysuria (no data), are prepared α-Isopropyl-4methoxyphenylacetonitrile in THF was treated with BuLi in hexane at 0° for 30 min and then with 1-bromo-3-chloropropane at 0° for 30 min to give α -(3-chloropropyl)- α -isopropyl-4methoxyphenylacetonitrile (II). II was refluxed with HSO3Cl in CH2Cl2 for 1.5 h, treated with H2O, extracted with CHCl3, concentrated, and the residue was treated with ammonia at 0° for 1.5 h to afford α -(3- $\verb|chloropropy|-\alpha-isopropyl-4-methoxy-3-sulfamoylphenylacetonitrile|\\$ (III). III was treated with 2-(2-methoxyphenoxy)ethylamine at 95° for 4.5 h, acidified with 10% HCl, extracted, concentrated, and the residue was treated with fumaric acid to give α-isopropyl-4-methoxy- α -[3-[2-(methoxyphenoxy)ethylamino]propyl]-3sulfamoylphenylacetonitrile hemifumarate.